

## WEST Search History

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DATE: Sunday, March 21, 2004

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L10	L9 and fischer tropsch	3
<input type="checkbox"/>	L9	control\$3 near2 heat near2 exothermic near3 reaction	189
<input type="checkbox"/>	L8	L2 and recycl\$3 near3 hydrocarbon	47
<input type="checkbox"/>	L7	L2 and recycl\$3 near3 cool\$2 near3 hydrocarbon	0
<input type="checkbox"/>	L6	L2 and regulate heat near2 reaction	0
<input type="checkbox"/>	L5	L2 and control heat near2 reaction	5
<input type="checkbox"/>	L4	L12 and recycl\$3 with condens\$2 with liquid hydrocarbon	0
<input type="checkbox"/>	L3	L2 and recycl\$3 near4 heavier hydrocarbon\$1	0
	<i>DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L2	L1 and fischer near1 tropsch	579
<input type="checkbox"/>	L1	exothermic near1 reaction	30082

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## Hit List

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6160026 A

Using default format because multiple data bases are involved.

L10: Entry 1 of 3

File: USPT

Dec 12, 2000

US-PAT-NO: 6160026

DOCUMENT-IDENTIFIER: US 6160026 A

TITLE: Process for optimizing hydrocarbon synthesis

DATE-ISSUED: December 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dai, deceased; Pei-Sing	late of Port Authur	TX		
Harrison; Jeffrey B.	The Woodlands	TX		
Nongbri; Govanon	Houston	TX		
Shah; Lalit	Sugarland	TX		
Vakil; Kamlesh B.	Sugarland	TX		

US-CL-CURRENT: 518/712; 518/700, 518/705, 518/715

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw D
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☐ 2. Document ID: US 6100304 A

L10: Entry 2 of 3

File: USPT

Aug 8, 2000

US-PAT-NO: 6100304

DOCUMENT-IDENTIFIER: US 6100304 A

TITLE: Processes and palladium-promoted catalysts for conducting Fischer-Tropsch synthesis

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singleton; Alan H.	Baden	PA		
Oukaci; Rachid	Gibsonia	PA		
Goodwin; James G.	Cranberry Township	PA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Energy International Corportion	Pittsburgh	PA			02	

APPL-NO: 09/ 320401 [PALM]  
 DATE FILED: May 26, 1999

## PARENT-CASE:

This application claims the benefit of U.S. provisional application Ser. No. 60/086,848 filed May 27, 1998.

INT-CL: [07] C07 C 27/00, B01 J 23/40, B01 J 20/00

US-CL-ISSUED: 518/715; 518/700, 502/326, 502/414  
 US-CL-CURRENT: 518/715; 502/326, 502/414, 518/700

FIELD-OF-SEARCH: 518/700, 518/715, 502/326, 502/514

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3943052</u>	March 1976	Kmak et al.	
<u>4079072</u>	March 1978	Finch	
<u>4133841</u>	January 1979	Maule et al.	
<u>4219445</u>	August 1980	Finch	
<u>4235754</u>	November 1980	Chester	
<u>4252736</u>	February 1981	Haag et al.	
<u>4260518</u>	April 1981	Katzer et al.	
<u>4385193</u>	May 1983	Bijwaard et al.	
<u>4403044</u>	September 1983	Post et al.	
<u>4423265</u>	December 1983	Chu et al.	
<u>4460710</u>	July 1984	Sapienza et al.	518/700
<u>4523047</u>	June 1985	Chester et al.	
<u>4595703</u>	June 1986	Payne et al.	
<u>4637993</u>	January 1987	van Erp	
<u>4684756</u>	August 1987	Derr, Jr. et al.	
<u>4686313</u>	August 1987	Bell et al.	
<u>4863890</u>	September 1989	Koll	
<u>4880763</u>	November 1989	Eri et al.	
<u>4908341</u>	March 1990	Pruden et al.	
<u>5023277</u>	June 1991	McAteer	
<u>5102851</u>	April 1992	Eri et al.	
<u>5116800</u>	May 1992	Williamson et al.	
<u>5206202</u>	April 1993	Lachman et al.	
<u>5461022</u>	October 1995	Dosch et al.	
<u>5939350</u>	August 1999	Singleton et al.	502/230

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
454256B1	October 1991	EP	
533227B1	March 1993	EP	
579330B1	May 1996	EP	
736326A1	September 1996	EP	

ART-UNIT: 161

PRIMARY-EXAMINER: Kumar; Shailendra

ASSISTANT-EXAMINER: Parsa; J.

ATTY-AGENT-FIRM: Fellers, Snider, Blankenship, Bailey &amp; Tippens, P.C.

## ABSTRACT:

A process for hydrocarbon synthesis comprising the step of reacting a synthesis gas in the presence of a cobalt catalyst promoted with palladium.

20 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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☐ 3. Document ID: US 5939350 A

L10: Entry 3 of 3

File: USPT

Aug 17, 1999

US-PAT-NO: 5939350

DOCUMENT-IDENTIFIER: US 5939350 A

TITLE: Processes and catalysts for conducting fischer-tropsch synthesis in a slurry bubble column reactor

DATE-ISSUED: August 17, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Singleton; Alan H.	Marshall Township, Allegheny County	PA			
Oukaci; Rachid	Allison Park	PA			
Goodwin; James G.	Cranberry Township	PA			

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY	TYPE	CODE
Energy International Corporation	Pittsburgh	PA				02	

APPL-NO: 08/ 797834 [PALM]

DATE FILED: February 10, 1997

INT-CL: [06] B01 J 27/13, B01 J 21/08, B01 J 21/04

US-CL-ISSUED: 502/230; 502/261, 502/260, 502/224, 502/229, 502/439  
US-CL-CURRENT: 502/230; 502/224, 502/229, 502/260, 502/261, 502/439

FIELD-OF-SEARCH: 502/261, 502/230, 502/260, 502/224, 502/229, 502/439

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3988263</u>	October 1976	Hansford	
<u>4079072</u>	March 1978	Finch	
<u>4088671</u>	May 1978	Kobyliniski	
<u>4219445</u>	August 1980	Finch	
<u>4235754</u>	November 1980	Chester	
<u>4385193</u>	May 1983	Bijwaard et al.	
<u>4499209</u>	February 1985	Hoek et al.	
<u>4565831</u>	January 1986	Wright et al.	
<u>4567205</u>	January 1986	Arcuri et al.	
<u>4822824</u>	April 1989	Iglesia et al.	
<u>4863890</u>	September 1989	Koll	502/230
<u>4880763</u>	November 1989	Eri et al.	
<u>5023277</u>	June 1991	McAteer	
<u>5116800</u>	May 1992	Williamson et al.	
<u>5424264</u>	June 1995	Richard et al.	502/261
<u>5639798</u>	June 1997	Wilson et al.	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
174696B1	March 1986	EP	
178008B1	April 1986	EP	
454256B1	October 1991	EP	
533227b1	March 1993	EP	
579 330 B1	May 1996	EP	
0736326A1	September 1996	EP	

OTHER PUBLICATIONS

Andreas Kogelbauer et al. Journal of Catalysis, vol. 160, pp. 125-133 (1996).

ART-UNIT: 161

PRIMARY-EXAMINER: Killos; Paul J.

ASSISTANT-EXAMINER: Parsa; J.

ATTY-AGENT-FIRM: Fellers, Snider, Blankenship, Bailey &amp; Tippens, P.C.

## ABSTRACT:

Processes and catalysts for conducting Fischer-Tropsch synthesis in a slurry bubble column reactor (SBCR). One aspect of the invention involves the use of cobalt catalysts without noble metal promotion in an SBCR. Another aspect involves using palladium promoted cobalt catalysts in an SBCR. Methods for preparing noble metal promoted catalysts via totally aqueous impregnation and procedures for producing attrition resistant catalysts are also provided.

16 Claims, 1 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Term	Documents
FISCHER	85867
FISCHERS	48
TROPSCH	8413
TROPSCHES	0
(9 AND (FISCHER ADJ TROPSCH)).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	3
(L9 AND FISCHER TROPSCH).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	3

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